

Name: _____

at1121exam_practice: Radicals and Squares (v606)

Question 1

Simplify the radical expressions.

$$\sqrt{45}$$

$$\sqrt{12}$$

$$\sqrt{28}$$

Question 2

Find all solutions to the equation below:

$$5(x + 7)^2 + 6 = 86$$

Question 3

By completing the square, find both solutions to the given equation. *You must show work for full credit!*

$$x^2 - 10x = 39$$

Question 4

A quadratic polynomial function is shown below in standard form.

$$y = 3x^2 - 24x + 41$$

Express the function in **vertex form** and identify the **location** of the vertex.